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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,453	09/30/2003	Robert D. Horning	H0004181	2002
75	90 06/14/2005		EXAMINER	
Matthew S. Luxton			TAMAI, KARL I	
Honeywell Inter Law Dept. AB2	Honeywell International, Inc. Law Dept. AB2			PAPER NUMBER
101 Columbia Road			2834	
Morristown, NJ 07962			DATE MAILED: 06/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			H '
	Application No.	Applicant(s)	
	10/673,453	HORNING, ROBERT D.	
Office Action Summary	Examiner	Art Unit	
	Tamai IE Karl	2834	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a a ly within the statutory minimum of thir will apply and will expire SIX (6) MON a, cause the application to become Ab	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	i.
Status			
1) Responsive to communication(s) filed on 25 N	<u>1ay 2005</u> .		
·	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal mat	ers, prosecution as to the merits is	
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application	l.		
4a) Of the above claim(s) 16-21 is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc		by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correc	tion is required if the drawing	(s) is objected to. See 37 CFR 1.121(c	i).
11) The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C.	3 119(a)-(d) or (f).	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document		pplication No	
3. Copies of the certified copies of the prior		· ·	
application from the International Burea	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not	received.	
Attachment(s)	🗖 .		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1 5 04		nformal Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I (claims 1-15) in the reply filed on 5/25/2005 is acknowledged. The traversal is on the grounds that the claims are sufficiently related to be examined together. This is not found persuasive because the groups are mutually exclusive in subject matter, Group I is directed to the structure of the electrostatic actuator while Group II is directed to how an electrostatic actuator is operated which does not require the structure of Group I. The mutually exclusive subject matter in the independent claims is evidence that the Applicant believes the subject matter to be separate inventions. The requirement is still deemed proper and is therefore made FINAL.

Information Disclosure Statement

2. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

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Specification

- 3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 4. The use of the trademarks KAPTON@, MYLAR@, and KALADEX@, have been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horning et al. (Horning)(US 2002/0125790) and Ohnstein (US 5180623). Horning teaches multiple electrostatic actuators having two polymeric sheets 112 having conductive 111 and dielectric 114 layers, where the sheets are secured together by

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adhesive 120. Horning teaches on sheet being flat (figure 6) or both sheets bowing (figure 7). Horning teaches multiple actuators laminated to form a stack. Horning does not teach the circular shape, the egress hole or the conductive and dielectric layers being films. Ohnstein teaches a circular shaped electrostatic actuator (figure 6a, 6b) with the conductive 8 and dielectric 15 layers being stacked to form the actuator with an egress hole 6 to form a valve. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construction the actuator of Horning with the dielectric and conductive layers being circular films with an egress hole to form a valve with a mating surfaces between the electrodes.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (703) 872 - 9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER June 9, 2005 KARL TAMAI